MECHANICAL VARIABLE REVERSIBLE TRANSMISSION

ABSTRACT

A mechanical variable reversible transmission includes a support frame, an elongate drive shaft and an elongate idler shaft both supported by the frame. A drive mechanism operably connected to the drive and idler shafts, respectively, and has an input for causing same to rotate in a first direction about the respective longitudinal axis thereof. A mechanism for governing the rotational direction of the drive shaft and is operably connected to the drive mechanism for causing the drive shaft to accelerate in the first direction and to thereby cause the idler shaft to rotate at a relative speed. The governing mechanism cooperates with the drive mechanism for causing the drive shaft to reach an idle stage and thereafter cause the drive shaft to rotate in a second direction after same accelerates from the idle stage.